(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

CORRECTED VERSION

(19) World Intellectual Property Organization

International Bureau



. I DERTE ENTREMENT DER MEN BENN BENN ENTREMENTEN EN DE MEN BENNE DE MEN EN DE MEN BENN EREN BENN DER MEN DER

(43) International Publication Date 3 February 2005 (03.02.2005)

PCT

(10) International Publication Number WO 2005/009227 A1

(51) International Patent Classification⁷: A61B 1/00

(21) International Application Number:

PCT/JP2004/010539

(22) International Filing Date: 16 July 2004 (16.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

2003-281850 29 July 2003 (29.07.2003) JP 2004-011954 20 January 2004 (20.01.2004) JP

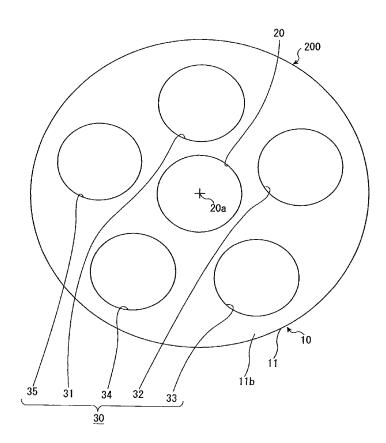
(71) Applicants (for all designated States except US): PENTAX CORPORATION [JP/JP]; 36-9, Maenocho 2-chome, Itabashi-ku, Tokyo, 1748639 (JP). NATIONAL CANCER CENTER [JP/JP]; 5-1-1, Tsukiji, Chuo-ku, Tokyo, 1040045 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SUGIYAMA, Akira [JP/JP]; c/o PENTAX Corporation, 36-9, Maenocho 2-chome, Itabashi-ku, Tokyo, 1748639 (JP). OHARA, Kenichi [JP/JP]; c/o PENTAX Corporation, 36-9, Maenocho 2-chome, Itabashi-ku, Tokyo, 1748639 (JP). SANO, Hiroshi [JP/JP]; c/o PENTAX Corporation, 36-9, Maenocho 2-chome, Itabashi-ku, Tokyo, 1748639 (JP). IKEDA, Kunitoshi [JP/JP]; c/o PENTAX Corporation, 36-9, Maenocho 2-chome, Itabashi-ku, Tokyo, 1748639 (JP). KAKIZOE, Tadao [JP/JP]; c/o NATIONAL CANCER CENTER, 5-1-1, Tsukiji, Chuo-ku, Tokyo, 1040045 (JP). KOBAYASHI, Toshiaki [JP/JP]; c/o NATIONAL CANCER CENTER, 5-1-1, Tsukiji, Chuo-ku, Tokyo, 1040045 (JP).

[Continued on next page]

(54) Title: INTERNAL TREATMENT APPARATUS FOR A PATIENT AND AN INTERNAL TREATMENT SYSTEM FOR A PATIENT



(57) Abstract: An internal treatment apparatus for a patient having a flexible tubular body to be introduced into a patient includes a center opening for inserting therethrough an endoscope for observing a target site, the center opening being circular in cross section and disposed at a center of an end face of the flexible tubular body; and a plurality of circumferential apertures through which surgical instruments are inserted for performing a surgical procedure on the target site, the plurality of circumferential apertures being provided in the flexible tubular body at equi-angular intervals around the center opening.



WO 2005/009227 A1

- (74) Agents: MIURA, Kunio et al.; Nishiwaki Building 4F, 1-4, Kojimachi 4-chome, Chiyoda-ku, Tokyo 102-0083 (JP).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- with amended claims
- (48) Date of publication of this corrected version:

23 June 2005

(15) Information about Correction:

see PCT Gazette No. 25/2005 of 23 June 2005, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.